

Sample-Draw Transmitter Fixed Gas Detector

For gas sample extraction from places where it is difficult to place a diffusion sensor

Key Features / Benefits

- Reliable method for sampling difficult to access areas
- Accepts sample lines up to 100 ft.
- Flowmeter with low-flow indicator
- Robust pump operates on 12 or 24 VDC, thereby reducing installation costs
- NEMA 4X, weather & corrosion resistant housing



The Sample-Draw Transmitter is a single gas detector which allows users to extract a gas sample from deep shafts, tall ceilings, wells, pits, and many other locations where it is either difficult or impossible to place a diffusion sensor. An internal motorized pump transports gas samples to the sensor via sample tubing. This instrument can be configured for the detection of hydrocarbons, oxygen or other toxic gases in a wide variety of applications.

Applications include:

- ◆ *Wastewater Treatment* - barscreen rooms, effluent wetwells, sewage lift stations, chlorine treatment/storage areas, digesters, permit-required confined spaces, and grit settling area monitoring
- ◆ *Water Treatment* - chlorine or ozone storage and delivery sumps and pits
- ◆ *Semiconductor Manufacturing* - as bunker, tool, gas jungle, gas cabinet, exhaust duct, and cleanroom monitoring
- ◆ *Automotive Manufacturing* - engine and emission testing bay, paint booth, and paint robot monitoring
- ◆ *Meat Packing* - cold storage, flash freezers, and warehouse monitoring
- ◆ *Refineries* - sulfur recovery unit and HF Alky unit monitoring
- ◆ *Aerospace Industry* - cleanroom and cryogenic research lab monitoring

Product Specifications

The Sample-Draw Transmitter is part of Thermo's complete gas detection family, which includes single gas portable monitors to multi-point integrated systems. You can be confident that our versatile solutions and worldwide customer support will ensure you maximum productivity.

Sensors

- ◆ Catalytic: combustible
- ◆ Electrochemical: AsH₃, B₂H₆, Cl₂, ClO₂, CO, F₂, HCl, HCN, HF, H₂S, NH₃, NO, NO₂, O₂, O₃, PH₃, SiH₄, or SO₂

Accuracy

±10% of reading

Analog Output

4 to 20 mA

Repeatability

±5% of reading

Operating Temperature

-4°F to 113°F (-20°C to 45°C)

Humidity

0 to 95% RH, non-condensing

Power Consumption

- ◆ 9 watts (combustible)
- ◆ 5 watts (toxic/O₂)

Input Power

12 VDC or 24 VDC

Dimensions

10 in (254 mm) L x
 4.5 in (114 mm) H x
 7.15 in (181 mm) W

Response Time

- ◆ 90% in less than 60 seconds (except combustibles, HCL, & HF)
- ◆ 90% in less than 70 seconds (HCL)
- ◆ 90% in less than 90 seconds (HF)
- ◆ 90% in less than 30 seconds (combustibles)

Weight

4 lbs (1.8 kg)

Case Materials

Fiberglass NEMA 4X enclosure

Warranty

One year (materials and workmanship)

Gas	Sensor Type	Formula	Standard Range
Ammonia	Electrochemical	NH ₃	0 to 100 ppm
Arsine		AsH ₃	0 to 1.00 ppm
Carbon monoxide		CO	0 to 500 ppm
Chlorine		Cl ₂	0 to 10.0 ppm
Chlorine dioxide		ClO ₂	0 to 2.00 ppm
Combustible	Catalytic		0 to 100% LEL 0 to 5,000 ppm
Diborane	Electrochemical	B ₂ H ₆	0 to 1.00 ppm
Fluorine		F ₂	0 to 10.0 ppm
Hydrogen chloride		HCl	0 to 30.0 ppm
Hydrogen cyanide		HCN	0 to 50.0 ppm
Hydrogen fluoride		HF	0 to 10.0 ppm
Hydrogen sulfide		H ₂ S	0 to 100 ppm
Nitric oxide		NO	0 to 100 ppm
Nitrogen dioxide		NO ₂	0 to 20.0 ppm
Oxygen		O ₂	0 to 30.0% Vol.
Ozone		O ₃	0 to 1.00 ppm
Phosphine		PH ₃	0 to 1.00 ppm
Silane		SiH ₄	0 to 20.0 ppm
Sulfur dioxide		SO ₂	0 to 20.0 ppm



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